

PATENT
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Jae Yong Han et al.	Confirmation No.:	2565
Serial No:	10/569,847	Art Unit:	1633
Filed:	April 10, 2006	Examiner:	Fereydoun Ghotb Sajjadi
Customer No.:	21559		
Title:	Method for Culturing Avian Spermatogonial Stem Cells and Avian Spermatogonial Stem Cells Prepared Thereby		

Commissioner for Patents
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DECLARATION UNDER 37 C.F.R. § 1.132

I declare:

1. I, Jae Yong Han the chief of the inventors of United State Patent application serial No. 10/569,847 declare as follows:

2. The present invention of the method for long term culture of spermatogonial stem cells (SSCs) from avian testes satisfies the long felt but unresolved need. The long felt but unresolved need in the field the present invention pertains to is to prepare transgenic chicken with high efficiency.

3. SSCs have an ability to self-renew and to produce large numbers of differentiating germ cells that become spermatozoa throughout postnatal life and transmit genetic information to the next generation. In vitro manipulation of SSCs offers the opportunity to study the mechanisms of continuation of the germline and to develop novel techniques for germline modification or therapy and producing of transgenic animal. In other words, SSCs can be utilized in the generation of transgenic animal or gene therapy of sperm cells through the introduction of gene into SSCs and